

**NONAQUEOUS DISPERSION OF SUPERFINE ZINC OXIDE PARTICLES AND ITS PREPARATION**

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Zusammenfassung von **JP11278838**

PROBLEM TO BE SOLVED: To provide a nonaq. dispersion of superfine zinc oxide particles which do not aggregate in the nonaq. dispersion and can easily be redispersed, and its preparation process.

SOLUTION: Zinc is heated and vaporized by a DC arc plasma process and the resultant zinc vapor is oxidized and cooled to form rod-shaped superfine particles of hexagonal zinc oxide giving pH 6.5-7.5 to a 20 wt.% aq. dispersion of the particles and having 5-70 nm average particle diameter. The particles, together with a dispersant, are dispersed in an org. solvent to obtain the objective nonaq. dispersion of superfine zinc oxide particles.

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